







**PRELIMINARY REPORT
INDUSTRY SERIES**

1982
Census of
Construction Industries

CC82-I-4(P)

Issued April 1984

**GENERAL CONTRACTORS--INDUSTRIAL BUILDINGS AND WAREHOUSES
(Industry 1541)**

During 1982, the establishments with paid employees classified in this industry accounted for \$18.8 billion in total business receipts. Of this amount, \$18.5 billion were receipts for construction work. These establishments paid out \$4.0 billion for materials, components, supplies, and fuels and \$8.9 billion for construction work subcontracted to others. This industry had total average employment of 160,822 employees with total payroll of \$3.4 billion. Value added for 1982 was \$6.0 billion.

Establishments classified in this industry are primarily engaged in the construction of industrial buildings such as aluminum plants, automobile assembly plants, pharmaceutical manufacturing plants, and commercial warehouses (including new work, additions, alterations, remodeling, and repair). For specific examples, refer to the 1972 Standard Industrial Classification (SIC) Manual, and its 1977 supplement, published by the Office of Management and Budget, Executive Office of the President.

For this census, a "construction establishment" was defined as a relatively permanent office or other place of business at which or from which the usual business activities related to construction were conducted. A separate census report was required from each establishment but not from each construction site. Instead, the data for work at each site were included in the report from the appropriate office or branch office. Foreign construction activities were not included in this census.

The 1982 estimates for establishments with paid employees in all of the construction industries are based on reports from a probability sample of approximately 172,000 establishments selected from a universe of about 498,000 construction establishments with payroll. The data obtained from the sample were weighted to represent all construction establishments with payroll. Complete descriptions of the sampling and estimating procedures will be included in the final reports.

Since the data in this report are based on a sample, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same questionnaires and procedures. The relative standard error shown in the tables is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population was surveyed.

All data shown are based on current dollars for the years specified and have not been adjusted for inflation.



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Table 1. General Statistics for Establishments With Payroll by States: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

Location of establishment	1982								
	Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†	
		All	Construction workers	All employees	Construction workers				
A	B	C	D	E	F	G	H	I	
United States	7 406	160 822	127 663	3 407 052	2 493 799	226 718	18 544 371	9 691 095	
Alabama	107	13 917	12 128	304 121	250 036	21 596	1 138 998	672 916	
Alaska	47	1 108	848	27 054	22 938	950	69 159	56 559	
Arizona	88	827	594	17 134	11 050	1 020	127 550	59 992	
Arkansas	62	987	825	16 760	12 965	1 424	81 766	55 617	
California	690	11 199	8 598	295 966	218 649	14 761	2 300 887	1 146 438	
Colorado	121	2 332	1 752	53 550	37 421	3 257	438 852	208 647	
Connecticut	93	993	720	20 502	13 599	1 227	105 967	55 934	
Delaware	29	626	509	10 968	7 833	959	65 673	31 830	
District of Columbia	8	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
Florida	323	5 036	4 020	89 293	63 475	7 206	505 501	248 643	
Georgia	155	3 979	3 213	63 668	45 491	5 865	390 692	181 782	
Hawaii	12	337	270	9 387	7 087	473	50 559	29 979	
Idaho	69	496	389	7 456	5 688	645	49 601	28 938	
Illinois	339	6 055	4 308	153 924	100 994	7 322	834 712	433 272	
Indiana	177	6 191	5 129	124 688	95 713	8 960	458 819	299 411	
Iowa	117	2 169	1 807	39 404	30 190	3 264	170 109	123 807	
Kansas	106	1 277	1 030	22 799	16 552	1 847	110 144	81 196	
Kentucky	114	1 941	1 562	36 707	28 577	2 716	194 185	114 621	
Louisiana	178	5 518	4 693	109 536	90 350	8 491	352 575	253 312	
Maine	20	469	425	4 167	3 141	714	29 422	(D)	
Maryland	77	1 356	1 053	26 480	18 668	1 782	158 942	63 754	
Massachusetts	189	3 007	2 298	62 080	43 386	4 144	417 851	172 329	
Michigan	328	5 161	3 793	136 061	98 044	7 222	1 587 089	465 032	
Minnesota	135	1 748	1 302	35 221	23 700	2 254	185 071	109 731	
Mississippi	64	1 466	1 191	21 150	15 836	2 211	113 693	83 433	
Missouri	169	6 288	5 044	147 989	111 662	8 635	861 383	426 540	
Montana	23	232	167	4 884	3 389	265	35 231	25 598	
Nebraska	56	776	519	10 558	8 033	935	43 992	32 671	
Nevada	40	223	158	4 047	2 374	225	33 813	16 052	
New Hampshire	26	371	296	5 808	4 294	567	32 493	18 019	
New Jersey	248	3 634	2 899	78 123	58 364	4 755	428 862	205 436	
New Mexico	53	895	726	13 338	9 857	1 234	83 887	44 640	
New York	400	5 789	4 432	119 946	84 549	7 796	698 863	374 414	
North Carolina	185	9 712	7 687	207 923	141 192	14 370	898 805	515 612	
North Dakota	62	718	586	11 415	8 308	1 040	59 461	43 537	
Ohio	398	7 421	4 959	181 566	105 357	8 227	824 443	384 399	
Oklahoma	99	1 253	992	20 954	15 926	1 687	122 244	73 502	
Oregon	98	784	610	15 604	11 539	1 010	80 263	47 195	
Pennsylvania	379	6 617	5 201	146 378	112 231	9 336	808 436	440 528	
Rhode Island	32	319	212	5 866	3 613	424	34 748	22 709	
South Carolina	88	5 237	4 713	104 647	90 834	9 322	371 151	234 594	
South Dakota	28	232	161	3 113	2 112	276	12 970	10 175	
Tennessee	139	3 673	3 084	59 402	44 611	5 214	333 581	179 862	
Texas	551	16 006	12 851	331 287	244 243	23 806	1 572 897	970 438	
Utah	88	1 078	880	19 515	15 082	1 445	124 620	61 054	
Vermont	18	573	460	9 507	6 923	919	54 608	31 088	
Virginia	146	4 349	3 596	74 035	47 429	6 591	407 051	159 582	
Washington	198	2 257	1 713	52 676	36 936	2 730	294 475	146 889	
West Virginia	48	1 110	918	22 827	17 453	1 522	78 705	59 870	
Wisconsin	145	2 691	2 050	59 624	42 522	3 527	259 789	144 349	
Wyoming	29	127	93	2 332	1 525	164	11 402	8 156	

Value added††	1982—Con.						1977				Relative standard error of estimate (percent) for column—			Location of establishment
	I	J	K	L	M	N	O	P	Q	B	H	M		
6 006 115	3 969 200	8 853 275	165 546	168 489	1 719 274	202 070	12 855 514	4 257 546	(W)	(W)	(W)	U.S.		
407 899	267 547	466 082	2 857	4 164	29 116	10 116	450 506	179 178	(W)	(W)	4	Ala.		
40 301	16 811	12 599	1 753	1 318	5 817	431	59 166	31 032	5	6	23	Alaska		
41 197	20 083	67 558	963	1 021	8 381	772	59 707	18 915	11	7	11	Ariz.		
33 009	23 935	26 149	1 921	1 921	15 346	1 765	84 916	31 318	11	9	8	Ark.		
861 871	310 759	1 154 449	17 306	14 162	161 628	8 790	1 061 105	282 550	2	1	1	Calif.		
74 839	135 815	230 204	1 652	3 257	34 050	2 297	168 119	63 487	3	2	5	Colo.		
37 003	20 849	50 032	451	573	11 034	1 574	125 258	40 236	7	5	8	Conn.		
17 266	15 122	33 843	321	588	4 674	972	49 477	6 133	6	4	7	Del.		
(S)	(S)	(S)	(S)	(S)	(S)	(D)	(D)	(D)	-	-	-	D.C.		
125 992	125 543	256 858	3 941	5 001	39 527	5 165	302 999	57 017	3	3	5	Fla.		
96 888	89 611	208 910	2 880	6 017	37 890	5 361	291 615	99 194	2	2	2	Ga.		
19 452	(D)	20 579	1 077	335	10 304	209	(D)	(D)	5	3	8	Hawaii		
15 906	13 916	20 663	833	2 142	6 688	(D)	61 094	23 052	12	10	9	Idaho		
254 228	208 333	401 440	6 797	8 160	91 772	11 641	793 279	302 264	2	1	3	Ill.		
155 540	149 458	159 408	2 689	4 177	84 794	5 692	348 778	129 501	1	2	5	Ind.		
53 753	74 643	46 301	1 890	2 400	28 384	4 141	244 687	79 019	6	5	1	Iowa		
46 936	(D)	28 948	1 074	2 125	17 362	2 840	154 906	62 255	8	7	20	Kans.		
74 269	40 756	79 564	1 707	1 143	16 160	2 121	116 717	41 882	6	5	9	Ky.		
174 964	83 268	99 263	7 228	2 811	43 749	4 944	178 362	84 912	2	2	3	La.		
7 493	7 926	(D)	106	597	2 354	898	38 718	13 686	6	-	10	Maine		
34 217	30 330	95 188	1 692	1 327	11 846	1 770	128 429	42 642	6	7	6	Md.		
105 743	67 432	245 522	3 370	1 933	25 318	3 290	242 936	72 825	3	3	6	Mass.		
354 878	117 048	1 122 057	3 990	5 606	65 854	7 322	750 780	181 340	2	1	2	Mich.		
51 031	61 673	75 340	1 485	1 312	21 216	3 566	269 572	85 050	6	5	7	Minn.		
38 412	50 580	30 260	1 465	3 006	16 615	1 163	70 330	18 937	6	7	15	Miss.		
258 877	172 494	434 843	3 741	8 035	113 238	5 399	417 977	122 480	2	1	1	Mo.		
10 212	15 548	9 633	317	249	2 816	673	42 863	15 549	14	9	3	Mont.		
16 754	17 100	11 321	240	518	9 238	1 460	95 003	27 295	21	15	14	Nebr.		
8 511	(D)	17 761	313	386	6 333	310	35 960	12 543	17	13	22	Nev.		
10 187	7 869	14 474	523	583	6 433	697	35 890	11 382	10	11	23	N.H.		
132 878	77 217	223 426	3 450	2 365	33 082	4 294	336 308	92 478	3	4	6	N.J.		
22 271	23 041	39 247	686	977	7 087	407	17 840	7 342	10	7	5	N. Mex.		
235 990	144 462	324 449	6 953	8 650	74 159	7 048	443 270	167 601	2	2	3	N.Y.		
344 717	179 944	383 193	13 370	11 731	111 493	7 580	385 144	115 990	1	1	2	N.C.		
15 421	28 303	15 924	914	595	8 292	813	44 244	18 390	15	13	23	N. Dak.		
269 813	164 997	440 044	9 661	11 475	77 738	9 428	677 052	257 253	1	1	2	Ohio		
32 820	41 066	48 742	2 005	1 164	11 127	1 540	104 324	32 585	7	6	4	Okla.		
28 448	19 725	33 067	1 046	856	13 860	2 048	193 727	51 564	13	14	4	Oreg.		
278 419	169 023	367 907	8 753	9 017	88 884	8 788	567 439	181 628	2	1	3	Pa.		
18 744	5 510	12 039	278	299	4 091	1 105	109 620	28 465	14	8	7	R.I.		
153 030	83 564	136 557	2 509	2 334	23 112	(D)	1 041 127	(D)	2	2	5	S.C.		
5 837	4 338	2 795	'60	241	3 228	351	20 005	8 193	21	20	12	S. Dak.		
107 299	83 407	153 719	3 528	1 916	27 648	4 432	260 637	72 082	3	3	3	Tenn.		
575 788	448 945	602 459	22 682	17 331	145 006	14 758	926 419	300 186	1	1	4	Tex.		
29 791	32 524	63 566	1 458	1 929	16 428	1 431	94 375	29 577	6	6	9	Utah		
16 344	14 757	23 520	362	672	7 304	322	16 191	5 623	6	7	(W)	Vt.		
81 562	83 516	247 469	7 895	4 823	40 036	4 131	254 373	81 761	3	3	3	Va.		
82 857	68 882	147 586	2 254	3 201	29 210	3 750	273 587	99 028	5	2	4	Wash.		
41 235	21 834	18 835	1 159	923	25 023	1 581	78 246	42 248	6	4	16	W. Va.		
88 047	61 408	115 440	1 403	2 447	38 053	3 962	302 254	109 381	3	3	1	Wis.		
4 983	*3 232	3 246	182	250	1 840	283	14 241	4 593	11	33	6	Wyo.		

**Table 2. Construction Receipts for Establishments With Payroll by Type of Construction:
1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

Item	1982	1977	Relative standard error of estimate (percent)	
			1982	1977
Total construction receipts	18 544 371	12 855 514	(W)	(W)
Building construction				
Single-family houses	18 018 951	11 984 361	(W)	(W)
Apartment buildings with two or more apartments	165 848	151 192	3	2
Other residential buildings	159 998	115 485	2	1
Industrial buildings and warehouses	113 538	65 206	2	2
Office and bank buildings	14 665 985	9 742 170	(W)	(W)
Stores, restaurants, public garages, and automobile service stations	1 429 758	627 834	1	1
Religious buildings	463 660	371 831	1	1
Educational buildings	105 442	95 475	2	1
Hospitals and institutional buildings	268 052	277 434	2	1
Amusement, social, and recreational buildings	489 975	368 390	(W)	1
Other nonresidential buildings	69 241	84 677	3	2
Nonbuilding construction	87 454	84 668	9	5
Power plants	501 053	867 595	1	(W)
Sewage treatment and water treatment plants	88 749	464 404	(W)	(W)
Other nonbuilding construction	119 441	152 208	(W)	(W)
Construction work, n.s.k.	292 863	250 983	1	1
	24 367	3 615	4	3

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The following abbreviations and symbols are used in the tables in this publication:

- * Sampling error exceeds 40 percent.
- ** All employees (average) is the sum of construction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- + Represents total construction receipts less payments for construction work subcontracted to others.
- tt Represents all business receipts less payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts."
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.



